

Dewey Burdock Project Site Location Map
Pine Ridge Reservation shown in tan.
National Forest Land shown in green.

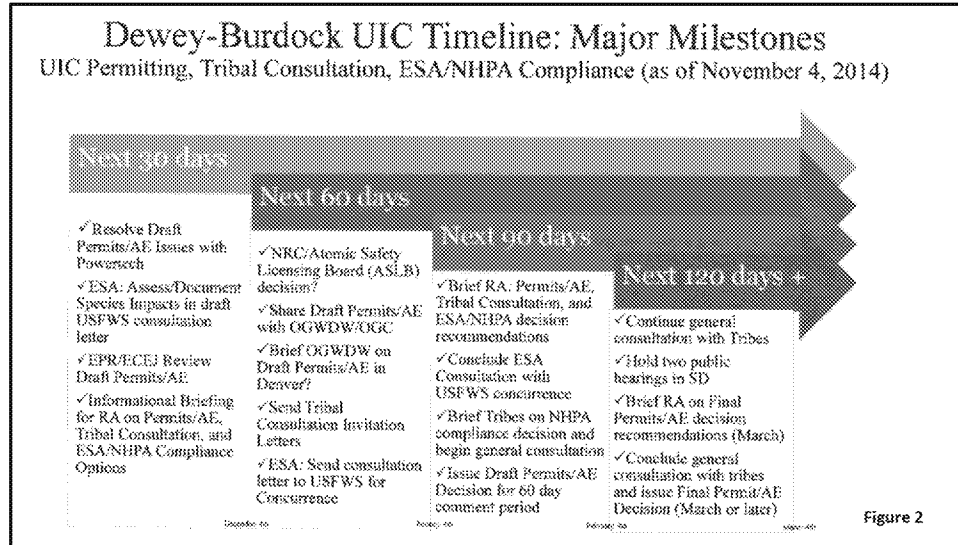
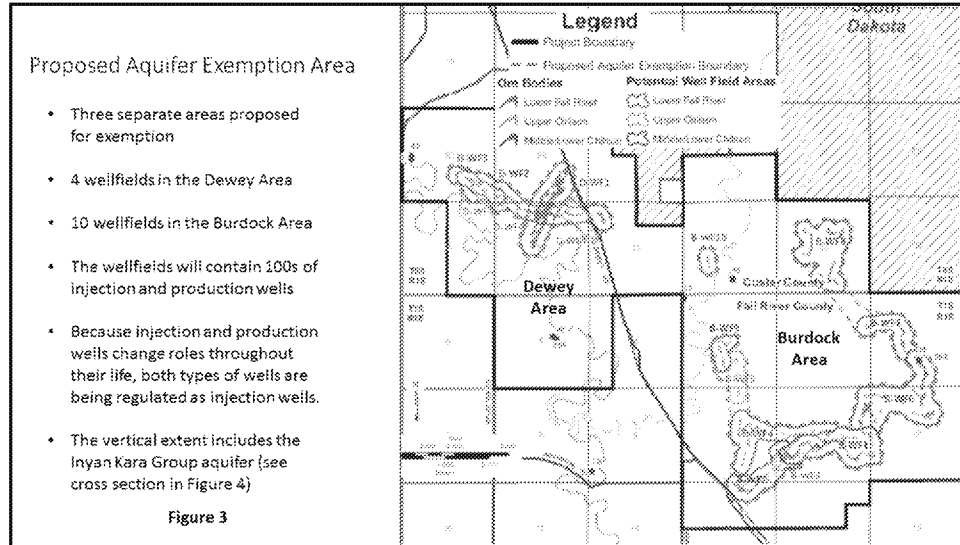


Figure 2

Timeline for activities related to the UIC Permits



Wellfields color-coded according to the stratigraphic unit hosting the ore zone (see slide 4). The aquifer exemption boundary is the dashed green line. This figure also shows the Dewey Area and Burdock Area of the Project Site.

AE Vertical Extent

Ore deposits occur within all the sandstone units shown:

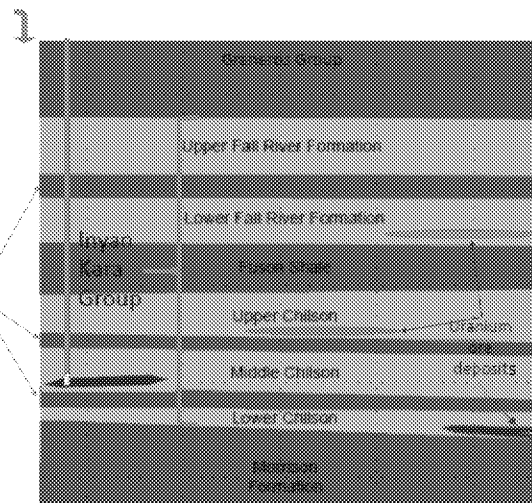
- the Fall River Formation (blue in Figure 3),
- Upper Chilson (green in Figure 3)
- Middle And Lower Chilson (red in Figure 3)

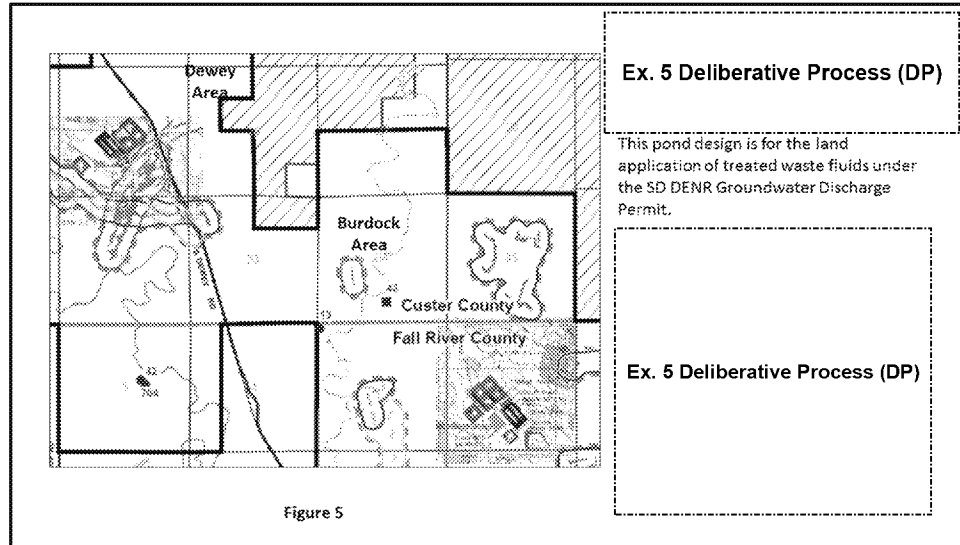
Graneros Group and Morrison Formation are the major confining zones for the Inyan Kara Aquifer. The Fuson Shale is the confining zone separating the Fall River and Chilson.

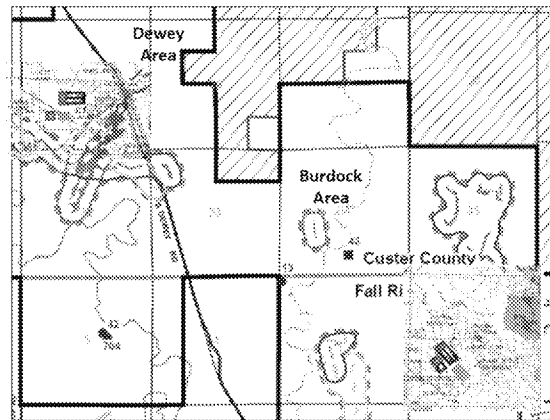
These are local discontinuous shale units that will serve as confining zones for individual wellfields.

Injection wells will not be screened across the entire Inyan Kara Aquifer, but only across the ore deposit.

Figure 4





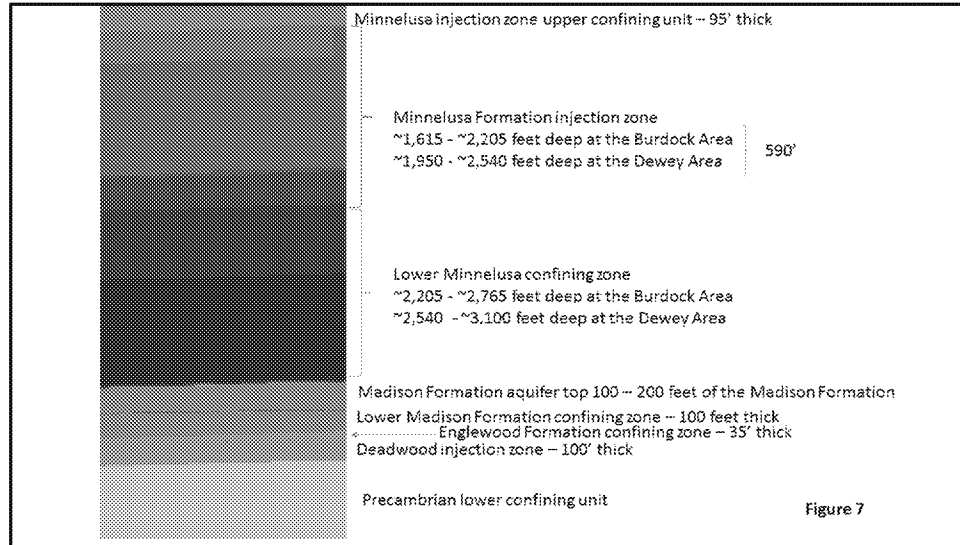


This pond design is for the Class V deep well disposal option for ISR process fluids wastes.

The 4 ponds outlined in pink store the treated waste fluids from the Class III wells which is also the Class V Injectate.

Ex. 5 Deliberative Process (DP)

Figure 6



Class V injection zones and confining zones

Although the immediately overlying confining zone for the Minnelusa is about 95' thick, it is overlain by an additional 600' of aquitards with very low permeability.